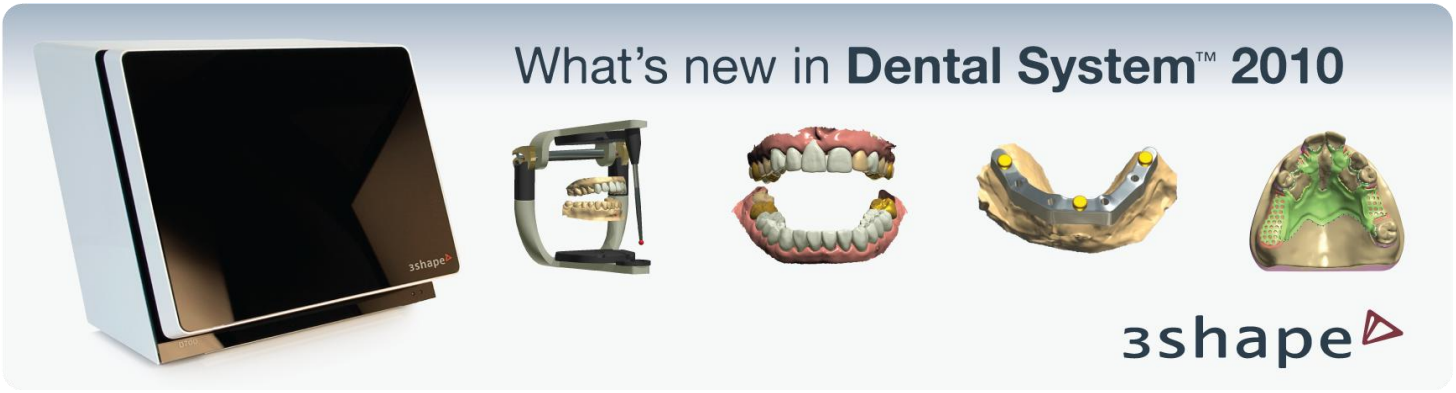


Welcome to 3Shape's Dental System™ 2010 release!

Once again the 3Shape Dental System™ has clearly established its position as the most advanced and leading CAD/CAM solution on the market. Now, the 2010 release empowers laboratories of any size with the opportunity to achieve the highest quality of output, improve their productivity through reductions in cost and turnaround time, and prepare their business for the future.

The 2010 version introduces new-generation additions and innovative technician-friendly features to 3Shape Dental System™, including new indications, new tools and improved productivity. The new major additions are described below followed by a list of minor improvements. Please refer to the online user manual for detailed descriptions of each feature.

We hope you will enjoy exploring the creative power of the new release and trust that it will create value in your daily operation!

Integrated online user manual in 10 languages

To increase user-friendliness, 3Shape's Dental System™ 2010 includes a new integrated online user manual. The Help-function can be activated in all steps of the design phase, and the user is automatically guided to the right section in the online user manual. Dental System™ 2010 supports multiple languages - currently: English, German, French, Italian, Spanish, Japanese, Russian, Portuguese, Korean and Chinese.

Simultaneous modeling of upper and lower jaw

With Dental System™ 2010, Technicians are now allowed the unique opportunity for creating, scanning and designing a restorative case that engages preparations in both jaws simultaneously – all fully aligned in occlusion.

Dynamic Virtual Articulation

The Dynamic Virtual Articulator allows for realistic simulation of the physical movements of the jaws. Virtual jaw movements can be adjusted and restricted according to user-defined values. Motion sequences can be planned and repeated, contact areas can be recorded, and designs can be automatically adapted to fit the dynamic occlusion.

3Shape A/S
Holmens Kanal 7
DK-1060 Copenhagen K
Phone +45 70 27 26 20

3Shape Inc.
571 Central Ave., Suite 109
New Providence, New Jersey 07974
Phone: +1 908 219 46 41

3Shape Asia
Room 1205, No.738 Shangcheng Road
200120 Shanghai
Phone: +86 138 183 38960

Mail: info@3shape.com
Web: www.3shape.com

What's new in **Dental System™ 2010**

3shape

Smile Composer – full anatomy bridges

This new powerful tool enables technicians to easily design highly aesthetic full anatomy bridges by working with full smiles. Intuitive workflow utilizes full-smile set-of-teeth templates. Virtual mirroring of designed and existing teeth enables rapid achievement of perfect symmetry.

New powerful Cut-to-neighbor and Plane Cut tools

The 2010 release equips the technician with even more Sculpt tools to improve esthetic and functional performance on critical design elements, such as copings, abutments and connectors. Using the new Cut-to-neighbor functionality makes it easy to adapt your design to fit the desired distance to neighbor teeth. The Plane Cut tool allows you to cut your restoration with a plane, using similar plane handling as for 2D cross section.

Enhanced flexibility with attachments, locators and generic CAD files

3Shape's new attachment functionality enables placement of any attachment in your design - e.g., slide attachments, ball attachments, wax pins, holes, springs on RPD's and generic CAD files. One or more attachments can be added to, or subtracted from, any restoration while the position and orientation can interactively be adjusted.

Non-uniform anatomical reduction

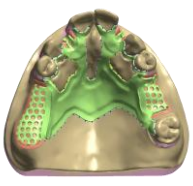
The new non-uniform anatomical reduction enables the option to define different anatomical reductions/offset for lingual, facial, proximal, occlusion and for the gingival for pontics.

Improved thickness measurement and enforcement

The algorithm for thickness measurement and enforcement of minimum thickness has been greatly improved and now preserves the anatomy of the enforced surface, making the enforced elements more usable in the end design.

Efficient design of Removable Partials (add-on)

The Removable Partial Design is the ultimate tool for highly productive and reliable creation of removable partials, providing labs with accurate digital control over a technique-demanding process while reducing production time by 70-80%. The digital design process intuitively mimics the familiar manual steps, including automatic blocking out, retention grid design, design of major connector and, finally, addition of clasps and support bars.

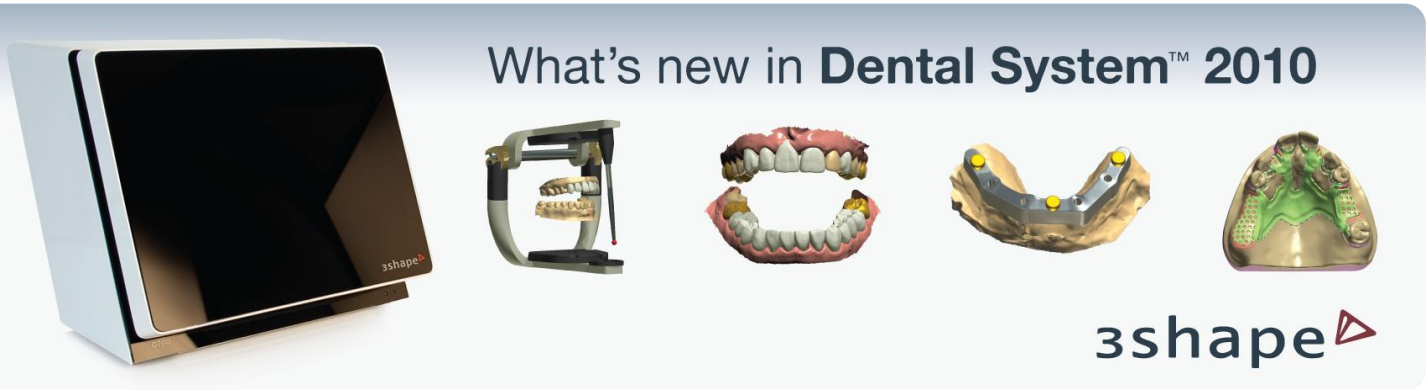


3Shape A/S
Holmens Kanal 7
DK-1060 Copenhagen K
Phone +45 70 27 26 20

3Shape Inc.
571 Central Ave., Suite 109
New Providence, New Jersey 07974
Phone: +1 908 219 46 41

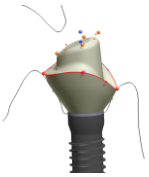
3Shape Asia
Room 1205, No.738 Shangcheng Road
200120 Shanghai
Phone: +86 138 183 38960

Mail: info@3shape.com
Web: www.3shape.com



3rd Generation abutment design (add-on)

New robotic abutment designer providing the technician with better design control, including numerical fixed radius on edges, better control of shoulder width and drill compensation ensuring optimal fit of simultaneous designed coping.



High-quality screw retained crowns (add-on)

Dental System™ 2010 features a fast, accurate and user-friendly workflow for producing high-quality single-piece restorations such as screw retained crowns, making these an attractive alternative to the more conventional 2-piece crown-on-abutment restorations. Single-piece restorations can be created in many materials such as E.max, Zirconia, composite and temporary materials.

Unique parallel abutments feature (add-on)

Use AbutmentDesigner™ to define a common insertion direction for groups of customized abutments, thereby ensuring perfect angles for the secondary structure. Virtually lock abutments together in order to interactively change the insertion direction for all simultaneously.

Sophisticated implant bars (add-on)

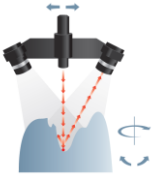
Design sophisticated implant bars and bridges based on high accuracy scans. The design functionality supports a very wide range of standard and free-form bars, and enables virtual addition of attachments, locators and retention holes anywhere in your design. Combine a scan of the acrylic denture with your bar design to easily visualize and measure on-screen for a perfect match between denture, bar and implants.

Multi-order scanning using D710 Multi-Die Feeder

By selecting multiple orders in DentalManager™ single dies from multiple orders can be combined in the same Multi-Die fixture and scan batch.

Improved Adaptive Impression Scanning

Adaptive Impression Scanning now features an even faster scanning, better alignment of single-tray impressions and significant optimization for the available model making machines (milling and 3D printing), see below.

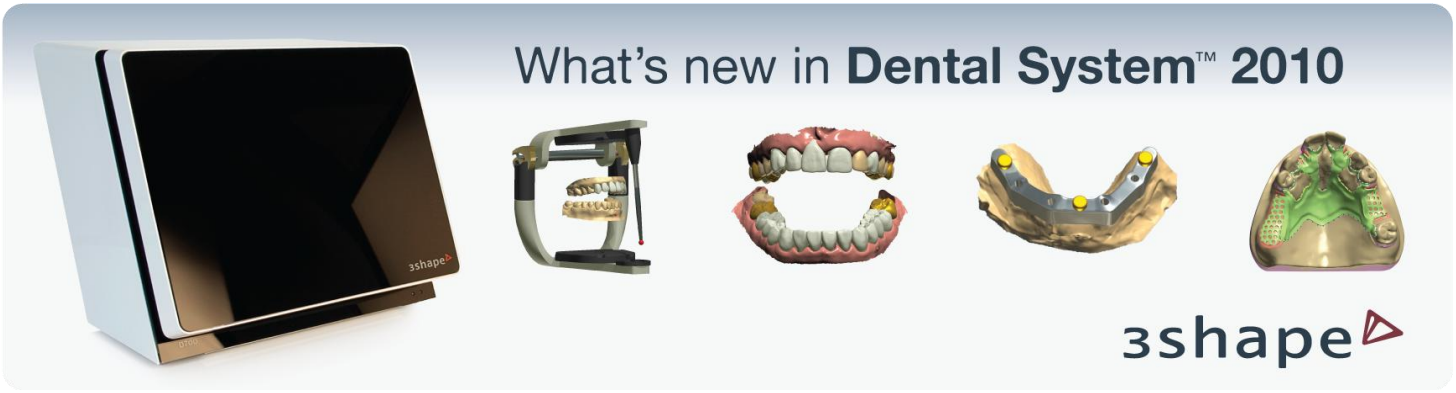


3Shape A/S
Holmens Kanal 7
DK-1060 Copenhagen K
Phone +45 70 27 26 20

3Shape Inc.
571 Central Ave., Suite 109
New Providence, New Jersey 07974
Phone: +1 908 219 46 41

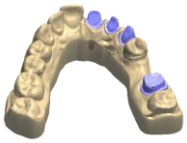
3Shape Asia
Room 1205, No.738 Shangcheng Road
200120 Shanghai
Phone: +86 138 183 38960

Mail: info@3shape.com
Web: www.3shape.com



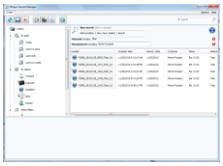
Unique Virtual Model Builder

The design of virtual models is vastly improved to provide increased performance and better fit of the prepared dies in the arch model. ID tags can easily be applied to the model and it is now possible to extract the dies while the model is placed in the articulator. In addition, neighbor teeth can be made extractable in the manufactured model.



Advanced search function in DentalManager™

The new search functionality in DentalManager™ allows the user to perform advanced searches in a simple and intuitive way, making it easy to find the relevant orders. It is easy to set up and combine any number of search terms and you can always save your custom searches for use at a later time.

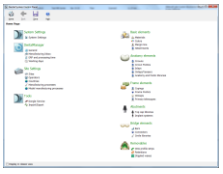


Additional order import/export functionality

Dental System™ 2010 offers order information exchange with third party applications, by interfacing through several formats, including the open 3shape order exchange (3OX) format. The new release supports 3rd party order formats, UDX (www.oxdig.org) and DDX (www.ddxdental.com), as well as full order import for 3M LAVA C.O.S. and Cadent iTero. Dedicated visualization output is now available for viewing scans and designs in the same coordinate system (dongle enabled).

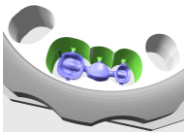
Enhanced user-friendliness in Dental System™ Control Panel

The Dental System™ control panel has undergone an extensive makeover to improve its user-friendliness and provide new functionality. A new next-generation user-interface allows faster navigation between the different elements and makes it easy to customize the necessary settings. The material import-export functionality has been given a new face, and all material settings are now presented in a systematic one-page overview.



Improved integration with CAMbridge™ (separate module)

The combination of Dental System™ 2010 and CAMbridge™ 2010/2 allows for a higher level of automation and more streamlined production. Introducing filters based on order information and type of dental indication will assist you in your daily work. The utilization of the order information is now an integrated part of most of the features in CAMbridge™.

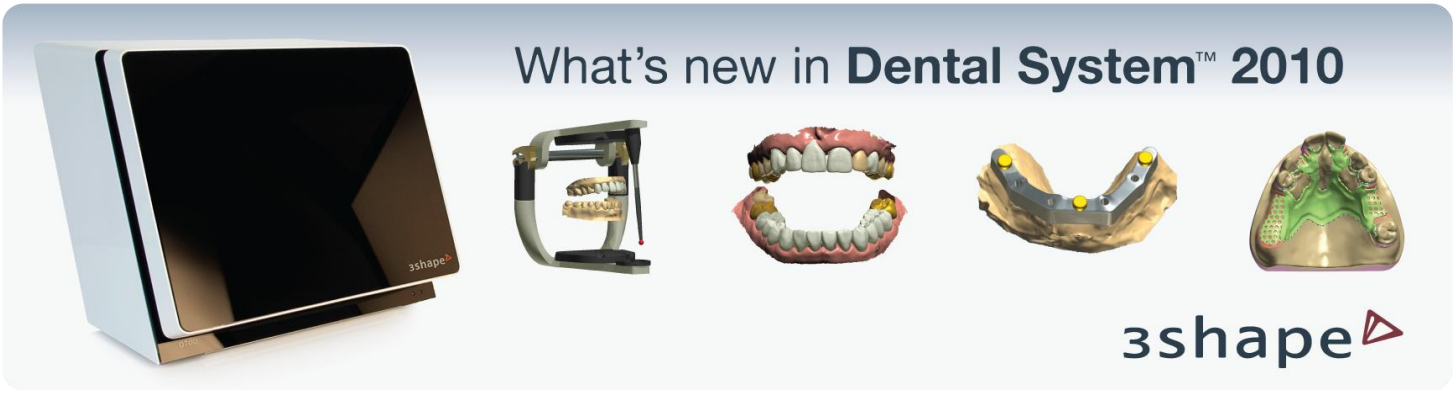


3Shape A/S
Holmens Kanal 7
DK-1060 Copenhagen K
Phone +45 70 27 26 20

3Shape Inc.
571 Central Ave., Suite 109
New Providence, New Jersey 07974
Phone: +1 908 219 46 41

3Shape Asia
Room 1205, No.738 Shangcheng Road
200120 Shanghai
Phone: +86 138 183 38960

Mail: info@3shape.com
Web: www.3shape.com



Dental System 2010 - Detailed Release Notes

New features and issues solved in the releases of 3Shape's Dental System™ 2010 are described below. Significant new features added during 2010, but already included in the 2009 version, are also listed.

Version 2.6.9.17 (January 2012)

The following new features and solved issues are available in Dental System™, version 2.6.9.17:

- Various issues fixed, including problem with the size of window displaying 'Product Improvement Program' text.

Version 2.6.9.16 (December 2011)

The following new features and solved issues are available in Dental System™, version 2.6.9.16:

- Improved integration with 3Shape TRIOS®.
- Possible to add restoration color to labels
- Various issues fixed, including problem with Inbox track and trace status change on lab side.

Version 2.6.9.15 (November 2011)

The following new features and solved issues are available in Dental System™, version 2.6.9.15:

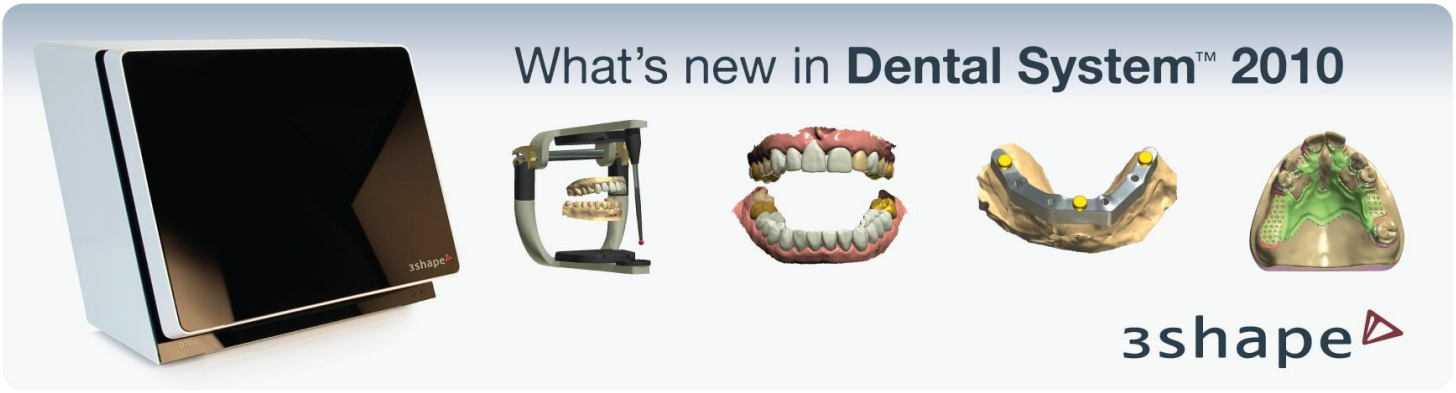
- Support for iTero™ newest order format (version 2.3).
- Improved integration with 3Shape TRIOS®.
- Ability to import multiple orders.
- Improved integration with 3Shape Communicate™.
- Various issues fixed, including problem with Dental System™ filling up Windows recycle bin.

3Shape A/S
Holmens Kanal 7
DK-1060 Copenhagen K
Phone +45 70 27 26 20

3Shape Inc.
571 Central Ave., Suite 109
New Providence, New Jersey 07974
Phone: +1 908 219 46 41

3Shape Asia
Room 1205, No.738 Shangcheng Road
200120 Shanghai
Phone: +86 138 183 38960

Mail: info@3shape.com
Web: www.3shape.com



Version 2.6.9.14 (September 2011)

The following new features and solved issues are available in Dental System™, version 2.6.9.14:

- Significant improved transition from margin line to the anatomy in Smile Composer™.
- Improved bridge connector stability.
- Full support for CAM output for digital models created in Model Builder.
- Ability to generate normal Lab order IDs for received TRIOS® orders.
- Ability to visualize and print the original TRIOS® Order Form
- Improved integration with 3Shape TRIOS®.
- Ability to export order (scan and CAD design) to Planmeca Romexis for implant planning.
- Ability to display "Contact Person" column in DentalManager.
- The ability to show internal finish line through occluding model in Removable Partial Design module.
- Optimized scanning for Removable Partial Design cases.
- Possibility to distinguish between One-piece and Two-piece abutments in the ERP settings in Control Panel.
- ERP information included in 3Shape Communicate™ Order Exchange (3OX) file.
- Improved integration with 3Shape Communicate™.
- Various issues fixed, including issue with setting of negative value for cement gap in Control Panel.

Version 2.6.9.13 (September 2011)

HotFix to solve two issues with a customer specific manufacturing DLL.

Version 2.6.9.12 (August 2011)

The following new features and solved issues are available in Dental System™, version 2.6.9.12:

- Optimized memory usage in DentalDesigner™.
- Model Builder™ (2012 version) can now be launched from DentalManager™.
- Improved Cut-to-neighbor functionality.
- Ability to scan only the waxup implant bridge during waxup bridge scanning.
- Possibility to continue work during upload of bug report.
- Ability to export and import margin line settings in Control Panel.
- Improved integration with 3Shape Communicate™.
- Improved dll import and check for invalid manufacturing dll versions.
- Various issues fixed, including issue with mismatching between Materials file and Control Panel settings.

Version 2.6.9.11 (August 2011)

The following new features and solved issues are available in Dental System™, version 2.6.9.11:

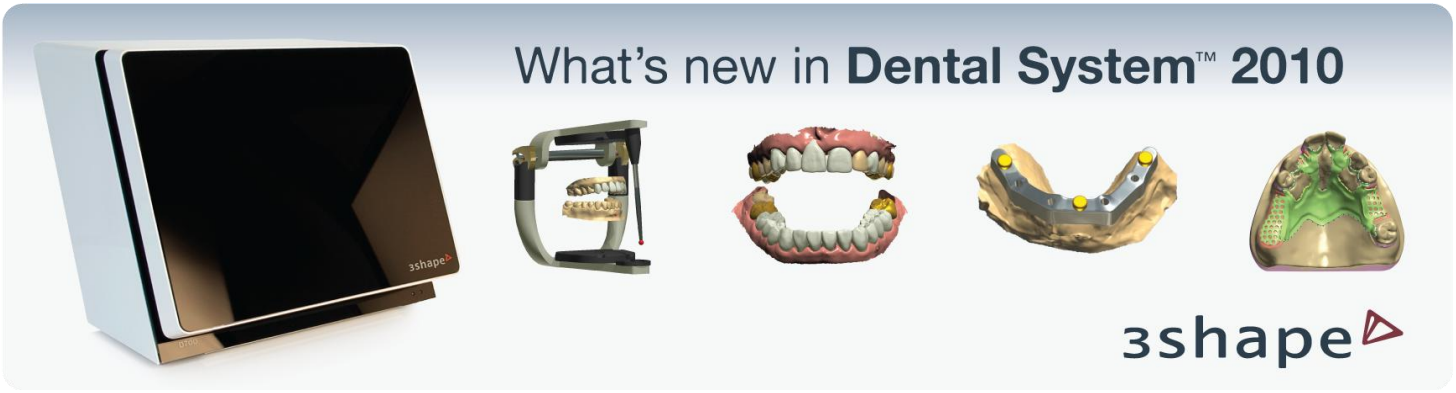
- Improved integration with 3Shape TRIOS®

3Shape A/S
Holmens Kanal 7
DK-1060 Copenhagen K
Phone +45 70 27 26 20

3Shape Inc.
571 Central Ave., Suite 109
New Providence, New Jersey 07974
Phone: +1 908 219 46 41

3Shape Asia
Room 1205, No.738 Shangcheng Road
200120 Shanghai
Phone: +86 138 183 38960

Mail: info@3shape.com
Web: www.3shape.com



Version 2.6.9.10 (July 2011)

The following new features and solved issues are available in Dental System™, version 2.6.9.10:

- Optimized memory usage during scanning and design:
  - Improved memory utilization in ScanItRestoration.
  - All Models take about 5% less space in memory.
  - Memory clean-up of unused models during design.

- New shortcut to display the memory usage during design (ALT + SHIFT + M).
- The ability to sort the Site List alphabetically in Dental System™ Control Panel.
- Improved integration with 3Shape Communicate™.
- Full Inbox support for 3Shape TRIOS® cases.
- User interface available in Turkish.
- Various issues fixed, including issue with appearance of artifact when using "Plane cut" operation during Telescope design.

Version 2.6.9.9 (June 2011)

The following new features and solved issues are available in Dental System™, version 2.6.9.9:

- Improved features and added functionality in Removable Partial Design module:
  - Easier and faster to fill interproximal gaps with block-out wax using the wax smoothing tool.
  - Ability to manually place minor connectors while controlling its width/thickness.
  - Improved tool for designing major connector.
  - Ability to add/remove block-out wax using tool with customizable uniform thickness.
  - Ability to manually place external finish lines with customizable position and profile.
  - Improved shape of "Torus Ladder" retention grid when placed on uneven gingival surfaces.

- Improved integration with 3Shape TRIOS.
- Option to select preferred language of User Manual when installing Dental System™.
- Reduced memory consumption in Smile Composer.
- Various issues fixed, including minor issues with tooth alignment in ScanIt Restoration.

Version 2.6.9.8 (May 2011)

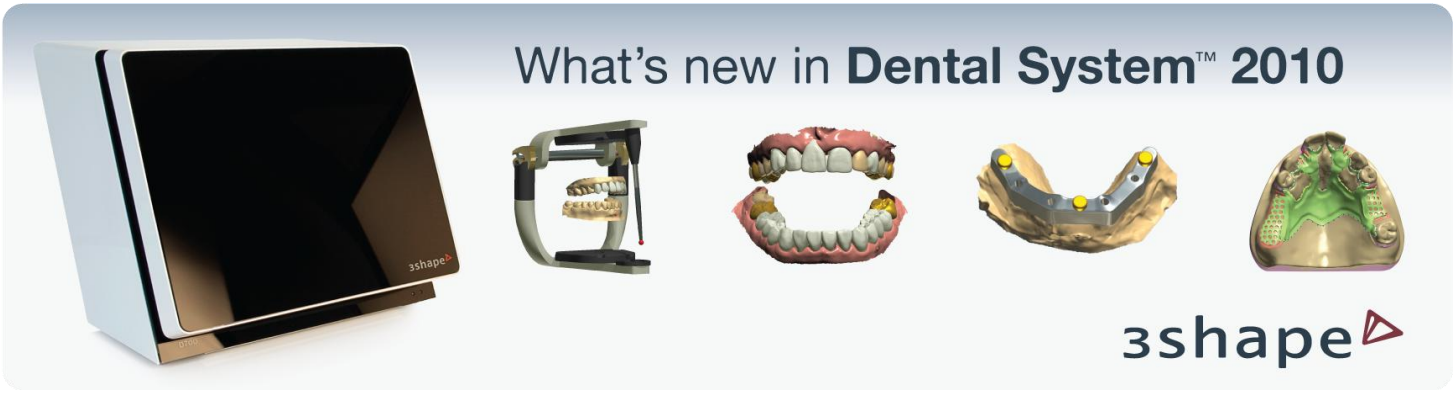
Hot-fix to solve issues with manufacturing quality (CAM output)

3Shape A/S
Holmens Kanal 7
DK-1060 Copenhagen K
Phone +45 70 27 26 20

3Shape Inc.
571 Central Ave., Suite 109
New Providence, New Jersey 07974
Phone: +1 908 219 46 41

3Shape Asia
Room 1205, No.738 Shangcheng Road
200120 Shanghai
Phone: +86 138 183 38960

Mail: info@3shape.com
Web: www.3shape.com



Version 2.6.9.7 (May 2011)

The following new features and solved issues are available in Dental System™, version 2.6.9.7:

- Increased functionality and more training material available in Download Center (previously called Documentation).
- Allow multiple DentalDesigner's to run on the same PC simultaneously.
- Improved handling of materials.
- Support for implant cases on imported scans.
- Improved integration with 3Shape TRIOS.
- New list of Dental System shortcuts is available in the online help system (see Appendix B - Using Mouse and Keyboard)
- General update of Help System (update available in English; other languages will be available in the next release).
- Various issues fixed, including issues with import of 3M Lava C.O.S. scans.

Version 2.6.9.6 (April 2011)

The following new features and solved issues are available in Dental System™, version 2.6.9.6:

- Support for bars on telescopes and copings (does not require Implant Bar & Bridge add-on module).
- Import of Sirona CEREC and InLab scans (using 3se file format) for CAD design in Dental System and output as usual (requires add-on Sirona Import/export interface).
- Shortkeys 1, 2, 3, 4, 5 and 6 to select predefined settings in Add/Remove in Sculpt Toolkit (use CTRL+shortkey to define short key settings).
- Introduced customized Order Form fields.
- Introduced Inlay Margin Protection.
- Inbox supports for TRIOS® scans.
- The color column is now available in the Inbox view.
- Possibility to enable mandatory color selection in Order Form (enabled per material in Control Panel).
- Added possibility to encrypt tooth libraries.
- Improved integration with 3Shape Communicate™.
- When exporting to FTP, settings are now remembered.
- Various issues fixed, including several Access Violation errors.

Version 2.6.9.5 (April 2011)

The following new features and solved issues are available in Dental System™, version 2.6.9.5:

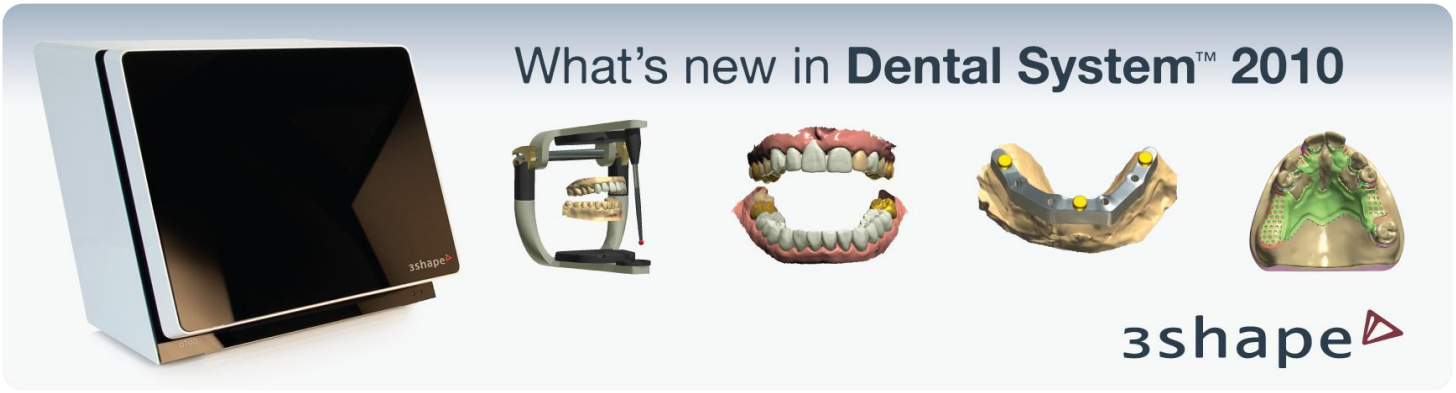
- Hot-fix to solve problem with remodeling older orders after upgrade.
- Only install implant libraries included in the installer if library is added on the dongle.

3Shape A/S
Holmens Kanal 7
DK-1060 Copenhagen K
Phone +45 70 27 26 20

3Shape Inc.
571 Central Ave., Suite 109
New Providence, New Jersey 07974
Phone: +1 908 219 46 41

3Shape Asia
Room 1205, No.738 Shangcheng Road
200120 Shanghai
Phone: +86 138 183 38960

Mail: info@3shape.com
Web: www.3shape.com



Version 2.6.9.4 (March 2011)

The following new features and solved issues are available in the Dental System, version 2.6.9.4:

- Improved integration with 3Shape TRIOS.
- Improved integration with 3Shape Communicate.
- Possible to make anatomical reduction equal to zero enabling solid crown and coping from the same design.
- Various scan issues fixed, including alignment of wax-up scan and freeze of the scan application.

Version 2.6.9.3 (March 2011)

Hot-fix to solve problem with importing orders of format 3M, 3OX, DDX, iTero and UDX

Version 2.6.9.2 (February 2011)

The following new features and solved issues are available in the Dental System, version 2.6.9.2:

- Updated C15 Smile Library.
- "My recent" orders filter added in Dental Manager.
- Added support for importing 3rd party implant-position files.
- Improved coverage for scanning.
- Various issues fixed, including possibility to save orders containing Korean signs and export of attachments.

Version 2.6.9.1 (January 2011)

The following new features and solved issues are available in the Dental System, version 2.6.9.1:

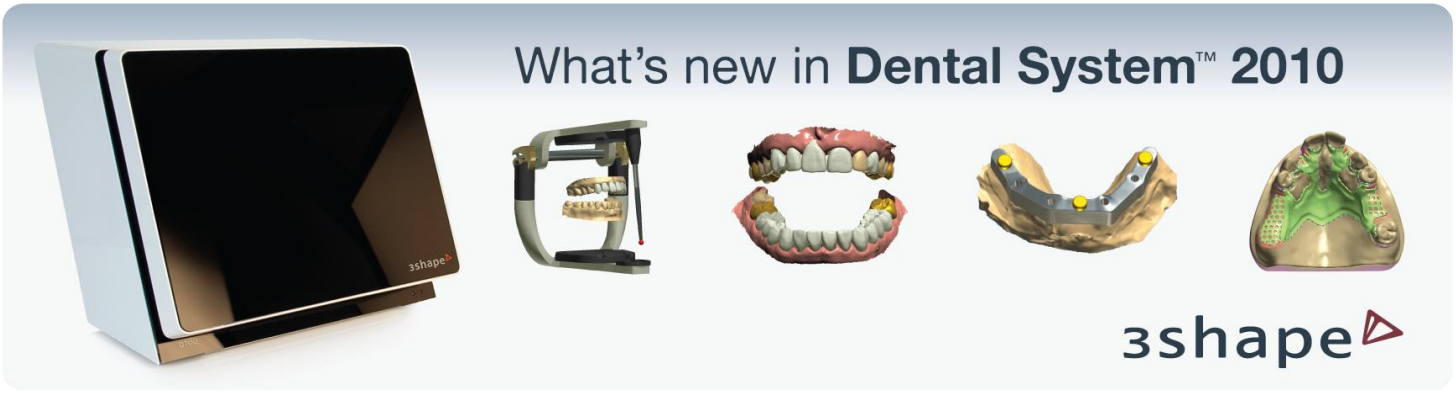
- Default tooth index system changed to FDI instead of UNN.
- Multi Language On Demand Documentation available through the Dental System Control Panel.
- Multi Language "What's New" information available on install.
- Installer size reduced greatly.
- Choice of language specific download of manuals offered during install process.
- CAMLOG Implant System added to the system.
- Various issues fixed, including multiple abutment scanning problem.

3Shape A/S
Holmens Kanal 7
DK-1060 Copenhagen K
Phone +45 70 27 26 20

3Shape Inc.
571 Central Ave., Suite 109
New Providence, New Jersey 07974
Phone: +1 908 219 46 41

3Shape Asia
Room 1205, No.738 Shangcheng Road
200120 Shanghai
Phone: +86 138 183 38960

Mail: info@3shape.com
Web: www.3shape.com



Version 2.6.9.0 (December 2010)

Order management (DentalManager™)

- General improvement of DentalManager™ performance particular for large amount of orders.
- "Copy order" functionality in DentalManager™.
- Auto-closing of modeled orders in Dental Manager after selected number of days.
- Daily folders option under order folders.
- Improved error logging for different Dental Manager versions.
- Supporting Windows 7 if user does not have administrator rights (Move materials/configuration out of Programs folder).
- Improved 3D Preview in DentalManager™.

Order creation

- Possible to change order without losing scan/design (note: orders might need re-design).
- Possible to change material for modeled orders.
- Update of order form user-interface.
- Keeping "Order form" settings as part of the Installation.

DentalManager Inbox™

- General Dental Manager Inbox™ performance improvement.
- E-mail notifications in case of problems in receiving orders in DentalManager Inbox™.
- DentalManager Inbox™ FTP can now run on SSL.

Sculpt Toolkit

- Cut to antagonist for all indications.
- Sculpt in finalize for single overpressed crowns.

General DentalDesigner™ improvements

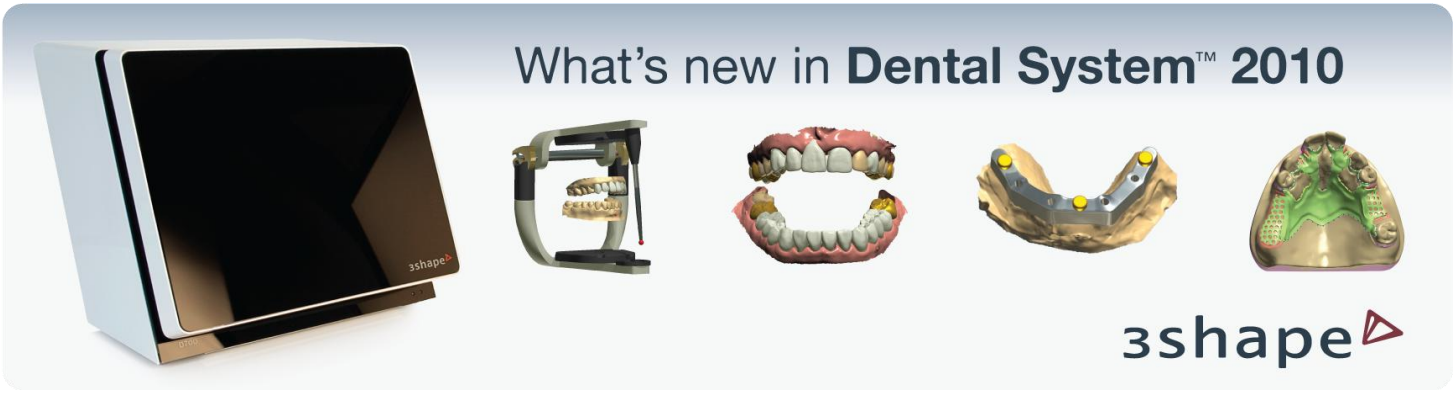
- Lingual band and non-uniform offset for pontics.
- Improved memory handling in DentalDesigner™ allowing design of larger bridge frameworks/more single units.
- Export of drill coordinates for abutments to XML-file.

3Shape A/S
Holmens Kanal 7
DK-1060 Copenhagen K
Phone +45 70 27 26 20

3Shape Inc.
571 Central Ave., Suite 109
New Providence, New Jersey 07974
Phone: +1 908 219 46 41

3Shape Asia
Room 1205, No.738 Shangcheng Road
200120 Shanghai
Phone: +86 138 183 38960

Mail: info@3shape.com
Web: www.3shape.com



Scanning

- "Back" button supported for all scans.
- Improved implant bridge/waxup bridge and bar scanning.
- Possible to re-register a new scan to the old scan when re-scanning in ScanItRestoration™.
- Improved usability in case of die alignment issues in ScanItRestoration™ by showing a color map of the alignment error and allowing the user to perform manual alignment.
- Support for scanning of unsectioned models.

Manufacturing

- Improvement of manufacturing DLLs.
- New manufacturing DLLs (e.g. 3M, KAVO, SIRONA).
- Possible to output standard 3OX files to CAM software for order information synchronization.

Other

- Product Improvement Program systematically collecting user feedback.
- Improved import/export of materials in DentalManager™ Control Panel.

3Shape A/S
Holmens Kanal 7
DK-1060 Copenhagen K
Phone +45 70 27 26 20

3Shape Inc.
571 Central Ave., Suite 109
New Providence, New Jersey 07974
Phone: +1 908 219 46 41

3Shape Asia
Room 1205, No.738 Shangcheng Road
200120 Shanghai
Phone: +86 138 183 38960

Mail: info@3shape.com
Web: www.3shape.com